

Date: Tue, 3 May 94 21:09:12 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #485
To: Info-Hams

Info-Hams Digest Tue, 3 May 94 Volume 94 : Issue 485

Today's Topics:

FT-530 Mod Made Easy? (2 msgs)
Gun Owners: Protect your Rights!
How to make a diplexer?
How to program a Yaesu FT530 HT
Idea, 10-10 members....
Looking for big heatsink supplier (2 msgs)
New FCC amateur radio licenses
Six Meter Opening on Saturday
TV channel frequencies
WJ 8737 Receiver? Is it worth it?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 4 May 94 01:02:29 GMT
From: news-mail-gateway@ucsd.edu
Subject: FT-530 Mod Made Easy?
To: info-hams@ucsd.edu

>I too just bought one (MFG lot 25) and it has the jumper. While in
>Dayton, I got the mod book and the layout is shown for this board. I
>cut the jumper, and it didn't work; no problem, maybe a strand from
>the jumper is still there...Well I cleaned that up completely
>(desoldering station) and still no go. Called Yaesu: 'What Jumper? It
>should only have a dot of solder.' I described the location of the pads
>it came from, they walked me through the reset and toggle procedure, and
>still no go. The radio just ignores it, pretends like the mod never

>happened. I removed the battery pack and the lithium battery for about
>half an hour, and tried the sequences again, NO GO!
>
>Anyone have any ideas?
>
>Vince -- KA8CSH
>

Wow, they are up to lot #25 already? Did you try holding down the up and
down arrows simultaneously while turning it back on (this is not the reset
procedure). The other possibility, although slim, was a reported rumor (I
think it was on CompuServe) that some of these radios might be subject to
the new EPCA since they could receive cellular. Maybe Yaesu "fixed" the
FT-530. I really doubt it though and it is probably another circuit board
design change.

```
*****
* Robert G. Schaffrath, N2JTX   * Internet:   rgs%wpmax2%gfidma@uunet.uu.net *
* Systems Engineer             * CompuServe: 76330,1057                 *
* Maxwell House Coffee Company * Phone:      914-335-2777                 *
* Kraft General Foods Corp.    * Slogan:      "ervice is ur mott"         *
*****
```

Date: 4 May 94 01:04:24 GMT
From: news-mail-gateway@ucsd.edu
Subject: FT-530 Mod Made Easy?
To: info-hams@ucsd.edu

>The serial number of my FT-530 is 3M230998. So it looks like it is from
>lot 23.
>
> Murl
>
>-----
>Murl McRae WA9CWT
>Bloomington, IN

A previous posting mentioned that he had a unit from lot #25 and cutting the
wire didn't work. Might be that Yaesu has made some changes.

```
*****
* Robert G. Schaffrath, N2JTX   * Internet:   rgs%wpmax2%gfidma@uunet.uu.net *
* Systems Engineer             * CompuServe: 76330,1057                 *
* Maxwell House Coffee Company * Phone:      914-335-2777                 *
* Kraft General Foods Corp.    * Slogan:      "ervice is ur mott"         *
*****
```

Date: 3 May 94 12:37:59 -0800
From: agate!gtewd.mtv.gtegsc.com!reina@ames.arpa
Subject: Gun Owners: Protect your Rights!
To: info-hams@ucsd.edu

Gun owners protect your constitutional rights!

Call your congressman or congresswoman today and urge them to vote NO on the assault rifle ban that is being voted on tomorrow (Wed. May 4, 1994) in the US House of representatives.

This law will infringe on your constitutional right to keep and bear arms.

Call your congressman (woman) today!

Vote NO on the assault rifle ban.

Date: 3 May 94 23:12:31 GMT
From: agate!howland.reston.ans.net!cs.utexas.edu!utnut!torn!uunet.ca!uunet.ca!
iceonline!icebox!janc@ucbvax.berkeley.edu
Subject: How to make a diplexer?
To: info-hams@ucsd.edu

>L1: 2 turns #14, 3/16" dia.
>L2: 4 turns #14, 3/16" dia.
>L3: 5 turns #14, 1/4" dia.

Are those inside or outside diameters?

janc@icebox.iceonline.com : If you eat a live toad first thing in the
: morning, nothing worse will happen to you all
Fido: 1:153/7116 : day.
Amateur Radio: VE7FJC : To you or the toad.

Date: Tue, 3 May 1994 15:10:51 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!torn!
news.ccs.queensu.ca!venus!pas@network.ucsd.edu
Subject: How to program a Yaesu FT530 HT
To: info-hams@ucsd.edu

This might interest some... please send suggestions,
corrections to me.

Thanks,
Peter

Peter A. Stokes _____ Voice & Voice mail: (613) 545-2923
Engineering Applications Support _____ FAX: (613) 548-8104
Canadian Microelectronics Corporation _____ Net: stokes@cmc.ca
Kingston, Ontario, CANADA _____ Radio: VE3ZXT @ VE3CDY

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How VE3ZXT programs his Yaesu FT530 HT

(These instructions are intended to help remind me on how I
program my FT530 and are not a substitute for reading the
manual!)

HINTS:

0. To turn the radio on, push and hold (for 1/2 a second) the orange button on the left side.
1. If you get into a strange mode or display, hit PTT as this usually clears it. The radio may display "ERR" for a moment.
2. To switch from band to band (left to right and back), use the "BAND" button.
3. If you want the backlight to stay on while using the radio, enter FM -> LAMP. The LAMP button is just below the PTT button.
4. The radio is capable of any combination of scanning, searching or being idle on both sides. For example, one can be scanning on the left side and carrying on a QSO on the right side. To make the radio scan, place the radio on any channel (push MR until the channel indicator does not have multiple small arrows) and then push and hold either arrow button. It is also possible to make the radio alternate scan (scan on the left, then right, then left, ...).

5. Push the Monitor (Burst) button (above PTT) to break squelch momentarily. Push and hold the same when the radio is off to see the seconds display on the clock.

PROGRAMMING GUIDE:

0. Ensure the radio has suitable power and lithium battery installed.
1. Reset the radio by holding the MR and VFO buttons as you power up the radio. This will clear all settings, time, channels, etc.
2. Enable the extended receive and transmit modifications by holding both arrow keys while powering up the radio again. Note: extended Rx and Tx also require a hardware modification not discussed here.
3. Set the clock: FM -> REV to see the clock
FM to go into set mode
(then see page 51 of the manual)

Hint: set the radio in UTC to avoid time zone and time change hassles.

4. Enable ARS (Automatic Repeater Shift) on both bands. This will automatically set the repeater offset to the correct frequency count and direction +/- when you program in a frequency. The radio understands the basic amateur bandplan and will not set an offset if you enter a simplex frequency (e.g 146.520).

FM -> 0 -> 6 -> FM -> 6

and again for the other band

FM -> 0 -> 6 -> FM -> 6

5. Set the alternate display (when only working one band) to display battery voltage (a nice feature IMHO!):

FM -> 0 -> FM -> BAND

and again

FM -> 0 -> FM -> BAND

Alternative displays include blank (---) and clock.

6. Set transmitter default power to high:

FM -> 3

7. Set scan resume mode on both bands to "P" for pause (as opposed to "5" which causes the radio to continue scanning after five seconds on one signal):

FM -> 7 -> FM -> 7

and again for the other band

FM -> 7 -> FM -> 7

8. Set automatic power off if desired:

FM -> 0 -> 3 -> 3

This feature can be useful if you want to conserve battery power or a pain if you are using the radio as a scanner or for packet monitoring. Note that the radio will shut itself off when battery voltage reaches near 5.5volts, eliminating the possibility of over-discharging your nicads. As the radio nears this shutdown condition, the display will alternate between normal functions and a battery voltage display.

9. Set ABS to the desired ratio. ABS is the Automatic Battery Saver and causes the radio to go into a low-power consumption sleep mode if it is not used for a few seconds. In this mode, the radio remains inactive (conserving power) except for periodic 30 millisecond samples of the frequency being monitored. ABS may cause you to miss the first split second of a transmission and can cause problems

for the same reason when the radio is being used for packet. Otherwise, it is a good tool. If I had the money, my car would have ABS too (but that is a different kind :-)) To set ABS, enter:

FM -> 4

and then one of the following keys

- 1 for 10ms sleep, 30ms sample duty cycle
- 2 for 20ms sleep, 30ms sample duty cycle
- 3 for 40ms sleep, 30ms sample duty cycle
- 4 for 80ms sleep, 30ms sample duty cycle
- 5 for 160ms sleep, 30ms sample duty cycle
- 6 for 320ms sleep, 30ms sample duty cycle
- 7 for 640ms sleep, 30ms sample duty cycle
- 8 for 1.28s sleep, 30ms sample duty cycle
- 9 for automatic ratio based on recent usage
- 0 for ABS off

10. If desired, enable Tx Save feature. This feature will adjust transmitted power based on the signal strength of the incoming reception. As a rule, amateurs should always be using the minimum power necessary to maintain their QSO. This is a lazy approach. To enable Tx Save:

FM -> 0 -> 4

and repeat for the other band

FM -> 0 -> 4

11. Program in your favorite frequencies in all the channels. There are 41 per band: 38 channels plus one CALL channel plus one U (upper channel) plus one L (lower channel). If you have enabled the extended receive and transmit, you will find that a wide range of UHF and VHF frequencies can be intermixed on each side. It is also possible to enter 0.8 GHz frequencies in the UHF side! If the frequency display is flashing, the PLL has unlocked and the radio is unable to tune that frequency.

The basic sequence to enter a frequency in a

channel is:

VFO enter into either VFO on the
 band desired

146940 to enter 146.940 MHz

FM (hold for two seconds)

(use arrow keys or dial to select
channel to store frequency in)

FM

The frequency is now stored. After a
second or two, the radio mode returns
to the VFO. Repeat this process as
necessary to enter all frequencies.

Refer to the manual on the programming of the CALL, L
and U channels. These are used for a quick recall of
the CALL frequency, Lower limit and Upper limit when
searching, respectively. Note that if a CTCSS tone
is stored in a U or L channel, that tone will be used
for decoding during search mode if searching is
initiated from that channel.

To set a CTCSS decode frequency on a given channel:

set radio on that channel

FM -> 2

turn dial to desired PL tone

2

Refer to the manual on setting a decode frequency or
scanning for a decode frequency.

To set a CALL channel frequency:

VFO enter into either VFO on the
 band desired

set frequency, offset and CTCSS tone

FM (hold for two seconds)

CALL

The radio is capable of receiving in AM mode and has extended receive capability down into the aircraft band. Although not discussed in the manual, the radio can store the mode (AM or FM) in each channel. To store a frequency in AM mode:

VFO enter into either VFO on the
band desired

set frequency

FM -> 0 -> FM -> VFO (enables AM mode)

FM (hold for two seconds)

use arrows or dial to select channel

FM

Note: the VFO will remain in AM mode until you enter the sequence again (FM -> 0 -> FM -> VFO) or the radio is made to listen to an FM channel. Remember to return the VFO to FM mode after setting an AM station otherwise you may end up programming all remaining channels in AM mode (annoying!).

Important: If you enter any frequency other than an amateur radio frequency, make sure you manually set the offset to - or + so that if you are listening to the frequency and accidentally PTT, you will not transmit on that frequency (e.g. a police frequency!).

12. Set IBS (Intelligent Band Select) if desired. This makes the radio automatically switch to the side, when you PTT, that last had a transmission. To set:

FM -> 0 -> BAND

Note: both bands must be displayed to set IBS.

13. Set DTMF keypad transmit hang time to on:

FM -> 0 -> FM -> 1

This makes it possible to enter a DTMF number sequence
(e.g. a phone number during an autopatch operation)
without having to hold PTT beyond entering the first
digit.

Please send suggestions/corrections to me,

73, de Peter

Peter A. Stokes _____ Voice & Voice mail: (613) 545-2923
Engineering Applications Support _____ FAX: (613) 548-8104
Canadian Microelectronics Corporation _____ Net: stokes@cmc.ca
Kingston, Ontario, CANADA _____ Radio: VE3ZXT @ VE3CDY

Date: Tue, 3 May 1994 19:10:20 GMT
From: darwin.sura.net!rsg1.er.usgs.gov!news.cs.indiana.edu!noose.ecn.purdue.edu!
constellation.ecn.purdue.edu!wb9omc@seismo.css.gov
Subject: Idea, 10-10 members....
To: info-hams@ucsd.edu

I'd like to gauge the interest among members of 10-10 International who
are on the Internet for a group, possibly called:

rec.radio.amateur.1010

The purpose of the group would be multiple:

- 1) to help disseminate information of general interest to 10-10 members
who have access to Internet.
- 2) to help 10-10 members set up skeds, nets and other communications events.
- 3) to help develop interest in not only 10-10 International but to maintain
interest in 10 meters in *spite* of the current lull in the band.
- 4) to help develop computer operating aids for 10-10 contests and
paperchasing.
- 5) to serve as one focal point for 10-10 members to discuss the organization,
contest rules, awards rules, etc.
- 6) other future purposes realted to Amateur Radio and 10-10.

I think that emailing me would probably be preferred to clogging up a number of newsgroups with "me too!" kinds of mail.

If you are interested or have a *brief* thought on the subject, please email:

wb9omc@harbor.ecn.purdue.edu

flames and/or mail bombs will be ignored, deleted, /dev/null'ed, etc. :-)

If interest seems positive enough, I will make some contacts with the officers of 10-10 to find out in what ways, if at all, they would like to make contact and maintain contact with such a newsgroup.

73

Duane, WB9OMC

Date: 3 May 1994 18:07:46 GMT
From: ihnp4.ucsd.edu!mvb.saic.com!MathWorks.Com!news.duke.edu!godot.cc.duq.edu!newsfeed.pitt.edu!dsinc!netnews.upenn.edu!eniac.seas.upenn.edu!depolo@network.ucsd.edu
Subject: Looking for big heatsink supplier
To: info-hams@ucsd.edu

The supplier doesn't have to be big, just the heatsinks.

What I'm looking for is a number of large heat sinks for home-brew high power solid state power amplifiers. The PA's will be rack mounted, so something that would be 19"W x 24"H x 4"D when rack-mounted would be in the ballpark. Anybody know of any good suppliers of big heatinks?

--- Jeff

--

Jeff DePolo	WN3A	Twisted Pair:	(215) 337-7383H	387-3059W
depolo@eniac.seas.upenn.edu		RF:	443.800+ MHz	442.400+ MHz 24.150 GHz

Date: 3 May 1994 12:48:49 -0700
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!usc!nic-nac.CSU.net!ctp.org!not-for-mail@network.ucsd.edu
Subject: Looking for big heatsink supplier

To: info-hams@ucsd.edu

Check an aluminum supplier. Ducommun used to sell stuff like that. I dunno what they sell nowadays.

--

Date: Tue, 3 May 1994 18:36:29 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!math.ohio-state.edu!
news.acns.nwu.edu!news.eecs.nwu.edu!ahab.eecs.nwu.edu!hpa@network.ucsd.edu
Subject: New FCC amateur radio licenses
To: info-hams@ucsd.edu

Followup to: <Cp8EKI.2Ju@ra.nrl.navy.mil>
By author: drumhell@claudette.nrl.navy.mil (David Drumheller)
In newsgroup: rec.radio.amateur.policy

>
> I've noticed that the recent amateur radio licenses come in two parts:
> the traditional wallet document, and one that can be framed to be hung in
> the shack. I was last issued a license in 1990 that was printed with an
> impact printer, and it's a little hard to read. It appears that the new
> licenses are laser printed.
>
> Question: Can I ask the FCC for the new license? I'd like to get the
> part you can frame. (Somehow I feel the answer is going to be 'no.')

>
You can get a new license issued if your old one got mutilated or destroyed. Mine pretty darn well qualifies (I left it in the trouser pocket in the wash), but the current FCC 3-month delay makes me leary... I figure also it will be a good incentive to finally get that 13 WPM so I can get an Advanced...

/hpa

--

INTERNET: hpa@nwu.edu FINGER/TALK: hpa@ahab.eecs.nwu.edu
IBM MAIL: I0050052 at IBMMAIL HAM RADIO: N9ITP or SM4TKN
FIDONET: 1:115/511 or 1:115/512 STORMNET: 181:294/101

.... .- -- ... -.. --- .. - --- -. - - .. .- .-.-.-

Date: 3 May 1994 18:34:13 GMT
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!convex!news.duke.edu!concert!
bigblue.oit.unc.edu!cheech@ames.arpa

Subject: Six Meter Opening on Saturday
To: info-hams@ucsd.edu

Greetings,

I thought someone would mention the opening on six that happened on Saturday. My participation was limited to listening since I haven't gotten around to fixing a little transmitter problem yet. I must do that soon.

I flipped on my old Mastr Pro about 8:00 PM EDT and a few minutes later it began to burp as some weak signals broke the squelch on 52.525. Within ten minutes traffic was getting heavy and after about an hour the radio settled into a screech and roar pattern as everyone tried to talk at once. This lasted for about half an hour before I finally started hearing one side of two or three conversations at a time. Once I even heard both sides of a QSO.

Most of the stations I heard from here in central North Carolina were 8's and 9's, with Wisconsin and Illinois the most reliable. A few Ohio stations came in off and on. I also heard a couple of 0 stations and considered eating the mike when I heard most of one call from a VE. I've got to get that transmitter fixed.

The band finally died about midnight and has been dead ever since when I was listening. The sporadic E season has arrived.

Take it easy,

Greg Young AC4YT
cheech@med.unc.edu

Date: 4 May 94 00:27:04 GMT
From: news-mail-gateway@ucsd.edu
Subject: TV channel frequencies
To: info-hams@ucsd.edu

Though not really the right newsgroup, since it was asked for here:

TELEVISION AUDIO FREQUENCIES

Note: The audio frequency may be offset by plus or minus .01 MHz to avoid interference.
The video frequency is 4.5 MHz lower.
Chroma subcarrier is 3.579545 MHz above video frequency.

Channel	Broadcast Television	Cable Television
2	59.75 VHF Low Band	59.75 VHF Low Band
3	65.75	65.75
4	71.75	71.75
5	81.75	81.75
6	87.75	87.75
7	179.75 VHF High Band	179.75 VHF High Band
8	185.75	185.75
9	191.75	191.75
10	197.75	197.75
11	203.75	203.75
12	209.75	209.75
13	215.75	215.75
14	475.75 UHF Band	125.75(A) Mid Band
15	481.75	131.75(B)
16	487.75	137.75(C)
17	493.75	143.75(D)
18	499.75	149.75(E)
19	505.75	155.75(F)
20	511.75	161.75(G)
21	517.75	167.75(H)
22	523.75	173.75(I)
23	529.75	221.75(J) Super Band
24	535.75	227.75(K)
25	541.75	233.75(L)
26	547.75	239.75(M)
27	553.75	245.75(N)
28	559.75	251.75(O)
29	565.75	257.75(P)
30	571.75	263.75(Q)
31	577.75	269.75(R)
32	583.75	275.75(S)
33	589.75	281.75(T)
34	595.75	287.75(U)
35	601.75	293.75(V)
36	607.75	299.75(W)
37	613.75	305.75(AA)
38	619.75	311.75(BB)
39	625.75	317.75(CC)
40	631.75	323.75(DD)
41	637.75	329.75(EE)
42	643.75	335.75(FF)
43	649.75	341.75(GG)
44	655.75	347.75(HH)
45	661.75	353.75(II)
46	667.75	359.75(JJ)
47	673.75	365.75(KK)
48	679.75	371.75(LL)

49	685.75	377.75(MM)	
50	691.75	383.75(NN)	
51	697.75	389.75(OO)	
52	703.75	395.75(PP)	
53	709.75	401.75(QQ)	
54	715.75	407.75(RR)	
55	721.75	413.75(SS)	
56	727.75	419.75(TT)	
57	733.75	425.75(UU)	
58	739.75	431.75(VV)	
59	745.75	437.75(WW)	
60	751.75	443.75(XX)	
61	757.75	449.75(YY)	
62	763.75	455.75(ZZ)	
63	769.75	461.75	
64	775.75	467.75	
65	781.75	473.75	
66	787.75	479.75	
67	793.75	485.75	
68	799.75	491.75	
69	805.75	497.75	
70	(811.75)	503.75	
71	(817.75)	509.75	
72	(823.75)	515.75	
73	(829.75)	521.75	
74	(835.75)	527.75	
75	(841.75)	533.75	
76	(847.75)	539.75	
77	(853.75)	545.75	
78	(859.75)	551.75	
79	(865.75)	557.75	
80	(871.75)	563.75	
81	(877.75)	569.75	
82	(883.75)	575.75	
83	(889.75)	581.75	
84		425.75*	*=repeats earlier
85		431.75*	channels
86		437.75*	
87		443.75*	
88		449.75*	
89		455.75*	
90		461.75*	
91		467.75*	

92	473.75*
93	479.75*
94	485.75*
95	95.75
96	101.75
97	107.75
98	113.75
99	119.75

--

David L. Wilson INTERNET: dwilson@s850.mwc.edu
Phone: (703)898-1084 (H) Amateur callsign: AC4IU G.S.: FM18fg

Date: 4 May 94 00:56:14 GMT
From: dog.ee.lbl.gov!agate!gtewd.mtv.gtegsc.com!reina@ucbvax.berkeley.edu
Subject: WJ 8737 Receiver? Is it worth it?
To: info-hams@ucsd.edu

Anyone have information on the Watkins-Johnson 8737 HF/VHF/UHF receiver
being offered by Fair Radio for \$1695? Includes built-in panaramic
display and digital frequency readout.

End of Info-Hams Digest V94 #485
